

What is claimed is:

1. A method of production planning, for calculating out production amount and/or supply amount and/or transportation means at a plural number of points of production, material supply
5 and/or marketing, comprising steps of:

putting a relationship between a target value of a predetermined management index and an estrangement value therefrom into restriction condition, when formulating the restriction condition into a linear programming problem; and
10 calculating out a feasible production plan, so that the estrangement between said predetermined management index and the target value thereof, being calculated from an executable solution of said linear programming problem, comes to be minimal.

15 2. A method of production planning, as is defined in the claim 1, wherein said management index is a combination of at least one or more of inventory, profit, sales, cost, a rate of operation, fulfilling rate of demands from marketing point, cash which production activity produces, and an efficiency at which
20 the production activity produces the cash.

3. A method of production planning, as is defined in the claim 1, wherein the target value of the management index is set to be equal to, greater or less than that, or maximal or minimal, with respect to a numerical value appointed.

25 4. A method of production planning, as is defined in the

claim 1, wherein the production amount and/or the supply amount and/or the transportation means is/are calculated out by repeating steps of: setting the target value of the management index through an input means, solving said linear programming problem in a calculation means, displaying a result thereof on a display means, and again, changing said restriction condition stored in a memory means upon receipt of change in the target value of the management index through the input means, solving the linear programming problem, the restriction condition of which is changed, in the calculation means, and displaying the result thereof on the display means.

5. A memory medium, storing program for executing said processes, in the method of production planning, as defined in the claim 1.

15 6. A method of production planning, for calculating out production amount and/or supply amount and/or transportation means at a plural number of points of production, material supply and/or marketing, comprising:

20 a step of performing modeling process on a linear programming problem with using an equation between target values of predetermined management indices and estrangement values therefrom as restriction condition;

a step of calculating out the value of said predetermined management indices by solving said linear programming problem;

25 and

a step of calculating out a feasible production plan upon basis of the value of said predetermined management indices.

7. A method of production planning, as defined in the claim 6, wherein the linear programming problem is solved by adding
5 at least one of management indices to said predetermined management indices, or by changing at least one of said management indices into another index, or by changing at least one target value of said predetermined management indices into another value, thereby calculating out values of the management indices
10 after the addition or the change thereof.

8. A method of production planning, as defined in the claim 6, wherein the values of said predetermined management indices are displayed on a display means in a form of a radar chart or a rod graph.

15 9. A method of production planning, as defined in the claim 7, wherein the values of said predetermined management indices and the values of said predetermined management indices after the addition or the change thereof are displayed on a display means in a form of a radar chart or a rod graph.

20 10. A method of production planning, as defined in the claim 7, wherein the values of said predetermined management indices and actual values of the management indices are displayed on a display means in a form of a radar chart or a rod graph.

25 11. A method of production planning, comprising:

receiving at least one target value information of management indices which are transmitted from terminal sides of users;

calculating out a solution for achieving the target values
5 of the management indices or a solution for making estrangement from target values of the management indices minimal, through conducting calculation process in a production plan system which is accumulated at a host server side, with using transportation information among a plural number of points and/or information
10 relating to cost at each point, which are accumulated in said server side.